

Name: Vignesh S

Regno: 192325002

**Experiment: 27. Implement a face detection algorithm using Open CV to detect and locate human faces in the images.**

**Code:**

```
import cv2

i = cv2.imread("face.jpg")

g = cv2.cvtColor(i, cv2.COLOR_BGR2GRAY)

fc = cv2.CascadeClassifier(cv2.data.harcascades +
                          "haarcascade_frontalface_default.xml")

f = fc.detectMultiScale(g, 1.3, 5)

for (x, y, w, h) in f:
    cv2.rectangle(i, (x, y), (x+w, y+h), (0, 255, 0), 2)

cv2.imshow("Face Detection", i)

cv2.waitKey(0)

cv2.destroyAllWindows()
```

**Input and Output:**

